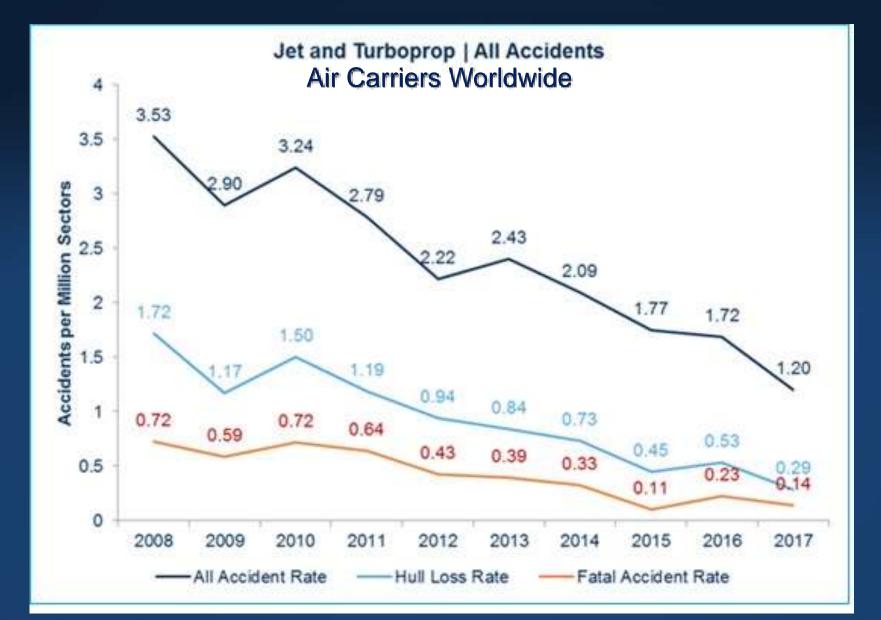


The Critical Role of Leadership in Promoting Flight Operations Safety

Robert Sumwalt



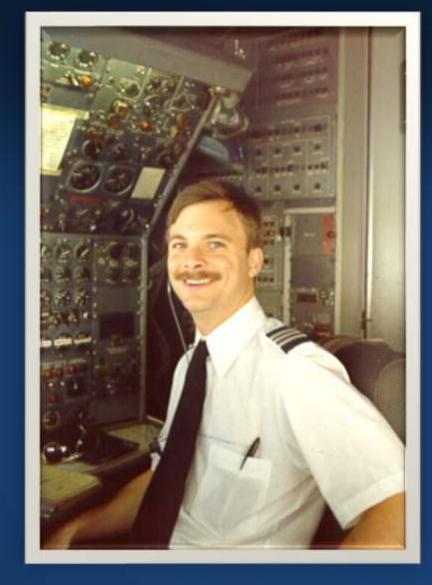
Source: IATA

Today's Message

The importance of flight operations and training leaders to promote and insist upon professionalism, standardization and flight deck discipline.

"Leadership is about influence. Nothing more. Nothing less."

- John Maxwell













INA -

Failure to follow procedures led to procedures finds crash, board finds

By CHARLES POPE Washington Bureau

washington — USAir Flight 1016 crashed last year after its pilots blundered into a severe thunderstorm shrouding the Charlotte airport and then responded incorrectly when the threat was recognized, ederal safety officials concluded lesday.

The picture painted by the Na

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Failure to foll sportation Safer procedures le DDAY * TOMORROW crash board

NTSB Finding

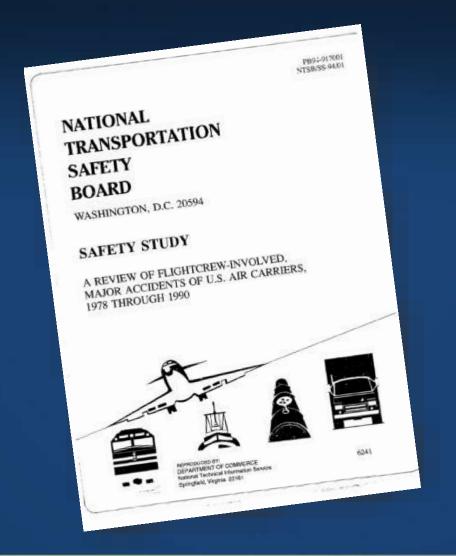


"The FAA ... and USAir's management were aware of inconsistencies in flightcrew adherence to operating procedures within the airline; however, corrective actions had not resolved this problem."

Why procedural compliance is important

- NTSB accident data
- Lautman-Gallimore Study
- Accident Preevention Strategies report

NTSB accident data



What NTSB accident data show

 Procedural errors, such as not making required callouts or failing to use appropriate checklists, were present in over 75% of reviewed accidents.





Lautman-Gallimore Study

 Looked at 12 airlines that had very good safety records

 Extracted common themes among the carriers

Lautman-Gallimore Study

- Management emphasis on safety
 - Safety as begins at the top of the organization and permeates the entire operation.
 - "Flight operations and training managers recognize their responsibility to flight safety and are dedicated to creating and enforcing policies."
 - "The presence or absence of a safety organization did not alter the total involvement of these managers."
 - "There is an acute awareness of the factors that result in accidents, and management reviews accidents and incidents in their own airline and in other airlines and alters their policies and procedures to best guard against recurrence."

Lautman-Gallimore Study

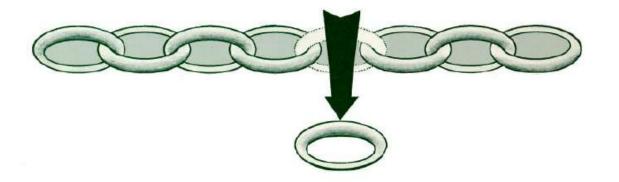
 Having a strong commitment to standardization and discipline were among the "key elements of safe operations."

 "Cockpit procedural language is tightly controlled to maintain consistency and to avoid confusion from nonstandard callouts Callouts and responses are done verbatim."

Commercial Airplane Group

Accident Prevention Strategies

"Removing Links in the Accident Chain"

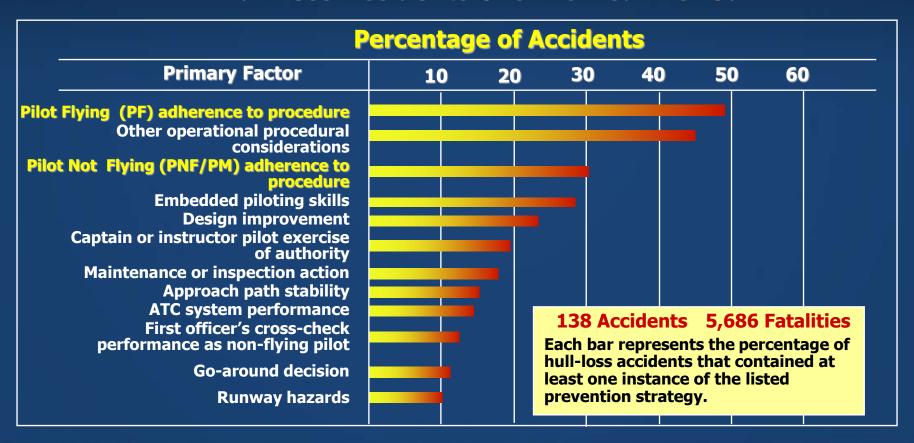


Commercial Jet Aircraft Accidents

World Wide Operations 1982 – 1991

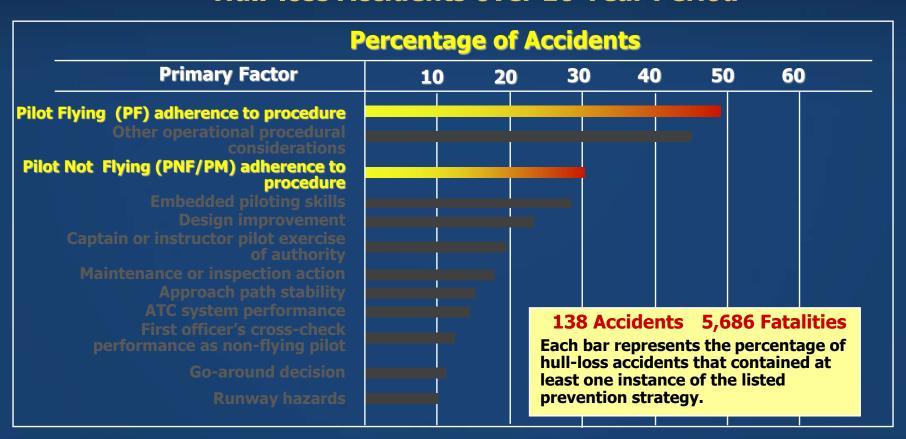
Accident Prevention Strategies

Hull-loss Accidents over 10 Year Period



Accident Prevention Strategies

Hull-loss Accidents over 10 Year Period



Why SOPs are not followed

Organization lacks adequate SOPs

Organizations don't adhere to their SOPs

Flight crews intentionally disregard
 SOPs

Why SOPs are not followed

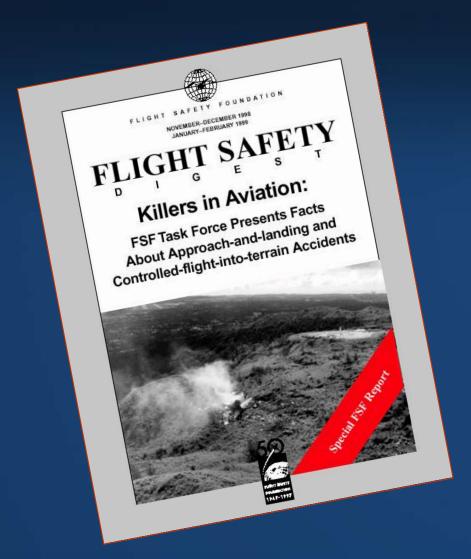
FLIGHT CREWS INTENTIONALLY DISREGARD SOPS



Probable cause:

 "...the flight crewmembers" unprofessional behavior, The state of the s including their non-adherence to sterile cockpit procedures by engaging in non-pertinent conversation, which distracted them from their primary flight-related duties and led to their failure to correctly set and verify the flaps."

Intentional non-compliance affects safety

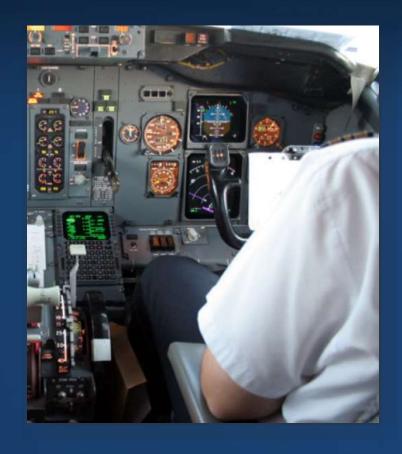


- Intentional crew non-compliance was a factor in 40% of the worldwide accidents reviewed.
 - R. Khatwa & R. Helmreich

Intentional non-compliance leads to other problems

- Line Operations Safety Audit (LOSA) data revealed that, compared to crews who followed SOPs, crewmembers who intentionally deviated from procedures:
 - averaged making three times more errors
 - mismanaged more errors
 - found themselves in more undesired aircraft situations.

John T.



- Self-initiating checklist
- Doing checklists from memory

"No other captain has said anything about the way | do checklists."

"I've even flown with check airmen and you're the first one to ever say anything about this."

Something to think about

- Next time you see someone violating the sterile cockpit or being a little loose with callouts or checklist items, what are you going to do?
 - Are you going to let it go, or are you going to say something about it?
- If you let it go, you are providing tacit approval, which reinforces this undesirable behavior.

 In your flight operations/training leadership position, if you accept anything less than standard, you send a message that it is okay to perform to a lower standard.

Establishing a culture of procedural compliance

- Procedures must not be developed in a vacuum - they must have the input of those who are expected to use them.
- Also, it is critical that crewmembers understand the reason for the procedures.
- Avoid seals, sea otters, and walruses.
- Avoid "Normalization of deviance"
- Avoid selective compliance





Deepwater Horizon

Deepwater Horizon





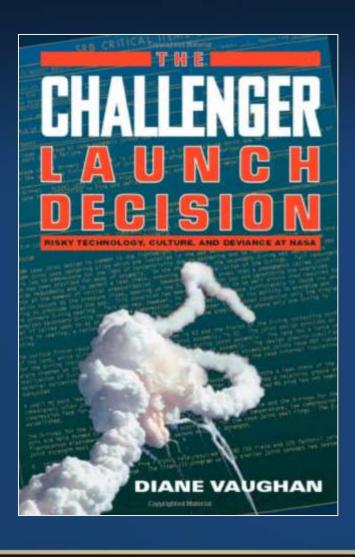
BP Spill Response Plan for that Specific Location:

- Listed a wildlife specialist at University of Miami
 - He left University of Miami 20 years earlier
 - Died 4 years before the plan was even published
- Listed incorrect and names and phone numbers for marine life specialists in Texas
- Listed instructions for how to deal with seals, sea otters, and walruses
 - None of these mammals even live in the Gulf of Mexico

In other words...

Make sure your procedures reflect the way you intend to operate, and then operate that way.

Avoid "Normalization of Deviance"



 Normalization of Deviance: When not following procedures and taking "short cuts" and becomes an accepted practice.

Avoid Selective Compliance



"That is a stupid rule."

• "I don't have to comply with that one."

Recommendations for

OBTAINING BETTER COMPLIANCE

Check for compliance



Audit flight crews for compliance

- John E. Jones

The goal is precision – not perfection.

"What gets measured gets done.
What gets measured and fed back gets done well.
What gets rewarded gets repeated."

"Leadership is about influence. Nothing more. Nothing less."

- John Maxwell

